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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/058,614	01/28/2002	Liqun Han	KLA1P058	3423	
22434 7.	590 04/23/2003				
	VER & THOMAS LLF	EXAMINER			
P.O. BOX 778 BERKELEY, CA 94704-0778			NGUYEN, VINH P		
			ART UNIT	PAPER NUMBER	
			2829		
			DATE MAILED: 04/23/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.		Applicant(s)				
		10/058,614	10/058,614 HAN ET AL.					
Office Action Summary		Examiner		Art Unit				
		VINH P NGUYEN		2829				
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover si	heet with the co	rrespondence ad	ldress			
THE I - Exter after - If the - If NO - Failu - Any r	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a repl period for reply is specified above, the maximum statutory period vere to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however y within the statutory minimu will apply and will expire SIX e, cause the application to be	r, may a reply be time im of thirty (30) days (6) MONTHS from the come ABANDONED	ly filed will be considered time the mailing date of this c (35 U.S.C. § 133).	ly. ommunication.			
1)⊠	Responsive to communication(s) filed on 28.	January 2002 .						
2a) 🗌	This action is FINAL . 2b)⊠ Th	nis action is non-fina	l.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
·	ion of Claims							
	Claim(s) 1-17 is/are pending in the application							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
·	Claim(s) is/are allowed.							
6)⊠	Claim(s) <u>1-17</u> is/are rejected.							
7)	Claim(s) is/are objected to.							
	Claim(s) are subject to restriction and/o	r election requireme	ent.					
• •	on Papers							
	The specification is objected to by the Examine							
10)[]	The drawing(s) filed on is/are: a)☐ acce	·	_					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.								
If approved, corrected drawings are required in reply to this Office action.								
	The oath or declaration is objected to by the Ex	aminer.						
	ınder 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
a)[☐ All b)☐ Some * c)☐ None of:							
	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
	3. Copies of the certified copies of the prior application from the International Buse the attached detailed Office action for a list	reau (PCT Rule 17.	2(a)).		Stage			
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).								
a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.								
Attachment		Friency and or oo c	2.3.3.33 120 6					
1) 🔀 Notice 2) 🔲 Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) 🔲 No	otice of Informal Pa	PTO-413) Paper No tent Application (PT				

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1. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

2. Claims 1-17 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

It is unclear from the specification how the apparatus of figure 3 is associated and interconnected with the apparatus of figure 1, therefore the operations of these apparatus is not well understood.

3. Claims 1-17 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claims 1 and 12, it is unclear whether two thermal field emission sources and two detectors have been claimed.

In claim 15, it is unclear what "a computer readable medium" represents. Is it shown in any of drawings? Furthermore, it is unclear whether there are two incident electron beams from two thermal field emission sources.

The dependent claims not specifically address share the same indefiniteness as they depend from rejected base claims.

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4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1-3,8,12-13,15 and 17 (insofar as understood) are rejected under 35 U.S.C. 103(a) as being unpatentable over Shirai et al (Pat # 4,209,702).

As to claims 1 and 12, Shirai et al disclose an apparatus as shown in figure 4 having a first and second thermal field emission sources (40) for generating first and second incident electron beam to an inspected sample ((42), two polepieces, deflectors (41) for directing the electron beams towards portions (42a) of the sample (42). In this figure 4, this apparatus does not have detectors for detecting the detected beam output from the sample (42). However, as shown in the prior art figure 2, it would have been well known for one of ordinary skill in the art to provide detector or monitor (20) for detecting electron beam output from the sample. It would have been obvious for one of ordinary skill in the art to provide the teaching of using the detector as taught by prior art figure 2 for detecting electron beam output from the sample so that the output signals are analyzed.

As to claims 2 and 13, it appears that the deflectors (42) would generate a uniform electrostatic deflection field.

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As to claim 3, it appears that the deflectors (42) generate electric field across the first and second incident electron beams.

As to claim 8, it appears that the arrangement for the detectors would have been an obvious design choice since this arrangement would depend on the arrangement of the emitted electron beams.

As to claims 15 and 17, it appears that the device of Shirai et al would have computer program instructions to control the operation of a device of figure 4.

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Maekawa et al (Pat # 3,715,580) disclose multi electron beam apparatus.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to VINH P. NGUYEN whose telephone number is (703) 305-4914.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305-4900.

VINH P. NGOYEN

PRIMARY EXAMINER

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04/17/03